

Abstract of the Invention

Cell Therapy for Chronic Stroke

5 A method of treating stroke in a patient who has undergone a stroke comprising administering at least 2 million suitable neuronal cells to at least one brain area involved in the stroke. The method comprises the step of using a twist drill or a burr to form a hole in the skull through which the cells could be administered. Exemplary cells are hNT neuronal cells, HCN-1 cells, fetal pig cells, neural crest cells, neural stem cells, or a combination thereof.

10 Also disclosed herein is a pharmaceutical composition of 95% pure hNT neuronal cells, which composition further includes a vial containing PBS and human neuronal cells. This vial is provided in a container with liquid nitrogen, whereby the composition is frozen and maintained at -170°C before use. Also disclosed are methods of improving speech, cognitive, sensory, and motor function in a person who has experienced brain damage which interferes

15 with function by administering a sterile composition of a sufficient number of neuronal cells or neural stem cells to the damaged area. Also disclosed is a method of replacing central nervous cells lost to neurodegenerative disease, trauma, ischemia or poisoning.